

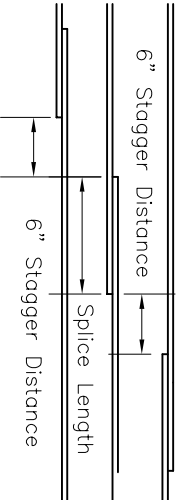
FOOTING DIMENSION & STEEL (A_{s1} & A_{s2})

| Wall Height H (ft) | Wall Thickness T_w (in) | Footing Width B (in) | Footing Depth h_f (in) | Overhang C_{ext} (in) | Rebar Parallel To Wall Ring Steel A_{s1} | Rebar Perpendicular To Wall Radial Steel A_{s2} |
|----------------------|---------------------------|------------------------|--------------------------|-------------------------|--|---|
| 8, 10, 12 | 8 | 20 | 12 | 6 | 3-#4 Rebar | Use #4 Rebar placed at Vertical Wall Steel (A_{sv}) spacing. For spacing greater than 9 inches use #5 bars, or #4 bars placed at $\frac{1}{2}$ (A_{sv}) spacing |
| 8, 10, 12 | 10 | 24 | 12 | 7 | 3-#4 Rebar | |
| 10 | 12 | 24 | 12 | 6 | 3-#4 Rebar | |
| 12, 14 | 12 | 30 | 12 | 8 | 3-#4 Rebar | |

1. Required soil bearing pressure shall be at least 2,000 psi.
2. Place ring steel 3 inches above the footing bottom.
3. Place radial steel on top of ring steel.

SPLICE LENGTH FOR ALL BARS

| Bar Size | Min. Splice Lengths |
|----------|---------------------|
| #3 | 18 inches |
| #4 | 25 inches |
| #5 | 32 inches |
| #6 | 38 inches |



SPLICING DETAIL FOR WALL AND FOOTING RING STEEL

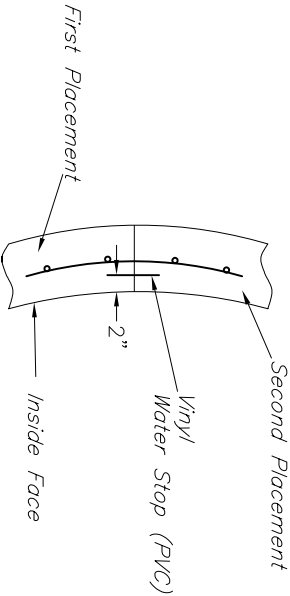
FLOOR STEEL (A_s)

| DISTANCE BETWEEN JOINTS * | FOR 5" THICK FLOOR | |
|---------------------------|--------------------|------------------------|
| | A_s | EXAMPLE |
| $\leq 30'$ | .029 | 6X6-W1.4XW1.4 (10 ga.) |
| $>30' \leq 60'$ | .058 | 6x6-W2.9xW2.9 (6 ga.) |
| $>60' \leq 90'$ | .087 | #3 @ 15" |
| $>90' \leq 140'$ | .12 | #4 @ 18" |
| $>140' \leq 200'$ | .19 | #4 @ 12" |

This table is for floors on coarse granular or cohesive material. For floors on sand or pervious geotextile, A_s may be reduced 50%.

* See PA-004 and PA-063 for joint details

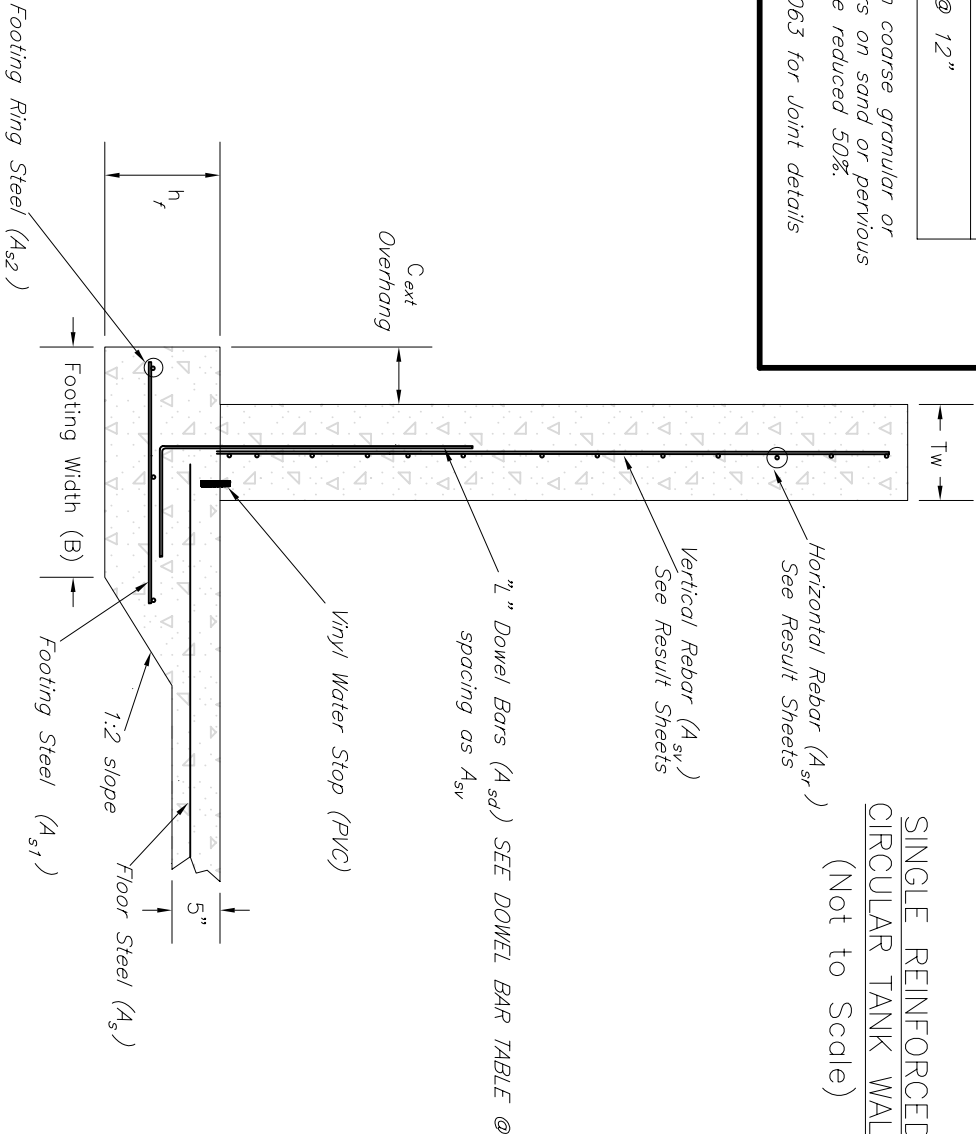
PLAN VIEW
TYPICAL WALL JOINT DETAIL



GENERAL NOTES:

1. For tank sizes not listed use the steel spacing & wall thickness from the next larger tank size.
1. For single mat of rebar, ring steel shall be located along the wall centerline.
2. Place vertical steel on the outside of the ring steel.

SINGLE REINFORCED
CIRCULAR TANK WALL
(Not to Scale)



DOUBLE REINFORCED
CIRCULAR TANK WALL
(Not to Scale)

